

PLAN REVIEW APPLICATION FOR FOOD SERVICE ESTABLISHMENTS

Montana Administrative Rules for Food Service Establishments - Plan Submission and Approval requires a copy of construction plans and specifications be submitted PRIOR TO construction of a new retail/wholesale food establishment OR remodeling an existing establishment to expand or add food processing/food service facilities AND as a condition of obtaining a license to operate. This plan review is required in addition to any City/County/State permits - the applicant is responsible for contacting the individual entities (planning, fire, zoning, other) to ensure compliance with their requirements.

The completed Plan Review application and payment should be submitted to Environmental Health, City-County Health Department at least 30 calendar days before **any** construction or alterations will begin.

Scope of Proposed Project (select one): Small (≤ 2500 ft²) Retail/Wholesale Large (>2500 ft²) Retail/Wholesale Warehouse Select all the following that apply: New Construction Conversion of Existing Building/Business to Food Facility/Business Existing Food Business to new, different food Business/Remodel Change of Business ownership (same food service establishment) Existing Business/No remodel	Proposed license endorsement(s)*: Check all that apply Food Service Establishment Perishable Food Dealer (retail only) Tavern or Bar Food Service/Catering (retail) Meat Market (onsite retail only) Food Service/Delicatessen (onsite retail) Bakery (onsite retail only) Produce (onsite retail only) School Cafeteria Mobile Food Manufacturer (onsite retail only)
Small: \$150 +\$50 for <i>each</i> license endorsement ch Large: \$250 +\$50 for <i>each</i> license endorsement Sm Warehouse: \$50 La	equested) and one pre-opening inspection isting facility: (e.g. Equipment and/or significant menu ange, kitchen remodel, new endorsement) hall: \$75 +\$50 for each new license endorsement rge: \$125 +\$50 for each new license endorsement vnership change (No remodel): \$50 Eived) for complete applications to be reviewed. CCHD will
contact you when the review has been completed. Incomplete applications will not be reviewed and will	be returned to applicant for completion.
☐ I have contacted City/County/State entities to en	sure compliance with their requirements.
Submit application and a check written to CCHD for th City-County Health Department, Environmental Health Attn: Plan Review 115 4 th St. South, Great Falls, Montana, 59401 For questions, call (406) 454-6950	
APPLICANT SIGNATURE	DATE
For office use only	
Sanitarian signature	Date received

Food Establishment Inspection Checklist for Pre-opening Health Department Inspection (day of licensing)

KEEP THIS PAGE FOR YOUR REFERENCE

All plumbing, mechanical, and electrical inspections must be completed by the appropriate building authority.
All refrigeration and freezer units must be on and at temperature (41°F or lower for refrigerators, 0°F for freezers). All units must have visible working thermometers.
All refrigerated make tables, steam tables, warmers, or other temperature regulating units must be on, at temperature, and setup as it they were ready to serve food. Have all inserts or hot pans in the units and water in at least one insert per unit. Hot hold units must be able to hold 135°F or higher and cold units 41°F or lower.
Have hot and cold running water at all sinks.
Have soap and paper towel dispensers installed at each hand sink and stocked.
Have sanitizer set up at the correct concentration. If you are using an automatic system, have it dispensing at the proper concentration.
Have the appropriate test strips for the sanitizer you choose to use.
Have your dishwasher ready and able to sanitize. If you have a chemical system, have the correct test strips available.
Have all surfaces finished. This means floors, walls, ceilings, insides of walk-in units, cupboards, etc. There cannot be any raw wood or unfinished surface. Any sections of the walls, floors, ceilings, or cupboards which have been cut away to accommodate plumbing, wiring, etc., must be tightly sealed to prevent pest entry and to aid cleanability.
All floors, walls, and ceilings in food prep areas or areas subject to high moisture must be non-absorbent.
All lighting must be shielded.
All hoods must be properly installed, inspected, and serviced.
Proper air gaps and backflow prevention must be in place where required.
All equipment must be onsite and in place as per the approved floor plans.
Restroom must be fully equipped.
All construction activities must be completed, and all construction related equipment and debris removed from the premises.
All conditions cited in the approval letter must be addressed.

You should set up as though you intend to serve your first customer at the end of the pre-opening inspection. You do not need food onsite, but all of the equipment must be working and ready, and all of your facility cleaned and sanitized for service.



KEEP THIS PAGE FOR YOUR REFERENCE

Commercial Kitchen Equipment/Sink Guidelines

- Food-contact surfaces must be (§4-202.11):
 - Smooth:
 - Free of breaks, open seams, cracks, chips, inclusions, pits, and similar imperfections;
 - Free of sharp internal angles, corners, and crevices;
 - Finished to have smooth welds and joints; and
 - Accessible for cleaning and inspection by one of the following methods:
 - Without being disassembled,
 - By disassembling without the use of tools, or
 - By easy disassembling with the use of handheld tools commonly available to maintenance and cleaning personnel such as screwdrivers, pliers, open-end wrenches, and Allen wrenches.
- Equipment should be easily movable:
 - Portable; mounted on casters, gliders, or rollers; or provided with a mechanical means to safely tilt a unit of equipment for cleaning; and
 - Having no utility connection, a utility connection that disconnects quickly, or a flexible utility connection line of sufficient length to allow the equipment to be moved for cleaning of the equipment and adjacent area.
- Equipment that is not easily moveable shall be either sealed to the floor or mounted on legs that provide at least six inches of clearance between the equipment and the floor (§4-402.12) or, in the case of counter-mounted equipment, 4 inches of clearance between the equipment and the counter.
- Equipment should be commercially rated (§4-205.10). "Homestyle" equipment (i.e. non-commercial refrigerators or ovens) is not designed for the continual use that a commercial kitchen demands, and may fail to maintain proper temperatures or operate consistently.
- Temperature measuring devices must be placed so as to measure the air temperature, or product temperature, in the warmest part of a refrigerated unit or the coolest part of a hot hold unit.
- There must be a 3-compartment ware washing sink, even if there is a mechanical dish machine present. Sink compartments of a 3-compartment ware washing sink must be large enough to accommodate immersion of the largest equipment and utensils used in the kitchen, unless the equipment is clean-in-place (§4-301.12).
- A food preparation sink must be provided if food is placed into a sink or sink compartment for the purposes of thawing or cleaning (§4-301.12(F)).
- There must be enough handwashing sinks so that at least one is available for convenient use by
 employees in all food preparation areas of the establishment; there may be no less than one
 handwashing sink (§5-203.11). Handwashing sinks may be used for no other purpose than
 handwashing, and must be accessible at all times (§5-205.11). Handwashing sinks must provide water
 that is at least 100°F. Self-closing faucets must provide a flow of water for at least 15 seconds without
 reactivation (§5-202.12).
- At least one service sink, or mop sink, must be provided and conveniently located for cleaning mops and other floor cleaning tools and for the disposal of mop water and other liquid waste. Toilets and urinals may not be used for disposal of mop water (§5-203.13).



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Employee Hygiene Guidance and Requirements

The purpose of this guidance document is to encourage employee practices and behaviors that can help prevent food handlers from spreading viruses and bacteria to food that cause foodborne illness outbreaks.

Section 2-103.11(M) of the ARM states that management has the responsibility to inform and monitor conditional employees(new hires) or food employees to ensure that they have good hygienic practices and know when they should not come to work because of illness.

Should employees exhibit the following symptoms, refer to section 2-201 of the 2013 FDA Food Code to determine when a food handler should be excluded or restricted from food handling duties:

- Vomiting
- Diarrhea
- Jaundice (yellow skin or eyes)
- · Sore throat with fever
- Infected cuts and burns with pus on hands and wrists

Below is a list of highly-infective pathogens that are transmissible through food and cause severe illness:

- 1. Norovirus
- 2. Hepatitis A virus
- 3. Salmonella Typhi
- 4. Shigella spp.
- 5. Escherichia coli (E. coli) O157:H7 (or other Enterohemorrhagic or Shiga toxin-producing E. coli)
- 6. Other enteric bacterial pathogens such as Salmonella or Campylobacter

If an employee has been diagnosed by a health practitioner to have any of these pathogens, prior to returning to work, they must be cleared by their health practitioner and the Health Department. In lieu of a diagnosis of any of these pathogens, employees can return to work if they have been free of the symptoms listed above for 24 hours or more.

Additional Resources

Employee Health and Personal Hygiene Handbook:

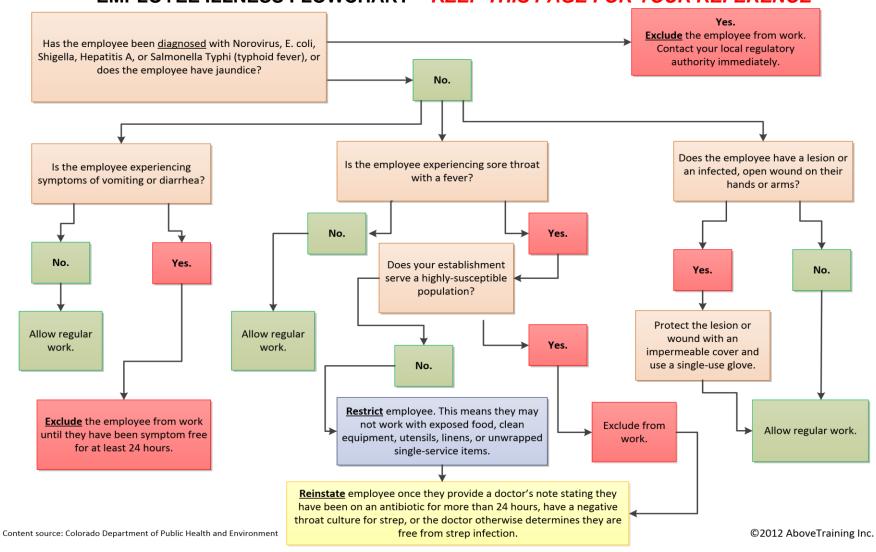
http://www.fda.gov/Food/GuidanceRegulation/RetailFoodProtection/IndustryandRegulatoryAssistance and Training Resources/ucm113827.htm

Communicable Disease Manual:

https://www.colorado.gov/pacific/cdphe/communicable-disease-manual



EMPLOYEE ILLNESS FLOWCHART - KEEP THIS PAGE FOR YOUR REFERENCE





Plan Review Form			
Establishment Information			
Name of Establishment:	Phone:		
Street Address:	Cell:		
City:	Fax:		
State/Zip:	Email:		
County:			
Business/Ownership Information			
Individual or Corporate Name:	Phone:		
Street Address:	Cell:		
City:	Fax:		
State/Zip:	Email:		
Contact Information			
Name of Primary Contact:	Phone:		
Street Address:	Cell:		
City:	Fax:		
State/Zip:	Email:		
Name of Architect:	Phone:		
Street Address:	Cell:		
City:	Fax:		
State/Zip:	Email:		
Name of Contractor:	Phone:		
Street Address:	Cell:		
City:	Fax:		
State/Zip:	Email:		

Date construction is to start:	Date of planned opening:



Facility Floor Plan/Equipment Layout	Site Plan
Equipment Specifications	Chemical and Personal Storage
Plumbing Plans and Schedules	Fixtures Requiring Hot Water (table 11)
Menu	Employee Hygiene Guidance (See Annex 3, pg. 16))
Have plans for this establishment been submitte	ed to the building department:
In City of Great Falls? Yes No Outside the City of Great Falls, State building	□ NA g official? □ Yes □ No □ NA
Circle applicable status:	
Newly Constructed Extensively Ren	modeled
Existing Business/Some Remodel Exist	ting Business/No Remodel Other
Type of Retail Food Esta	ablishment (Check all that apply)
Full Service Restaurant	Bar
Fast Food	Coffee Shop
Market (Grocery)	School Food Program
Deli	Catering Operation
Fish Market	Concession
Meat Market	Manufacturer with Retail Sales
Convenience Store	Other:
Indicate number of seats in each area:	<u> </u>



Square Footage and Area Location *If the establishment is in a multi-story structure, indicate on which floor each area is located. Please indicate square footage in each area Square Feet (ft²) *Floor Total Square Feet of the Kitchen Area Square Feet of the Food Preparation and Dishwashing Area Square Feet of Food/Beverage Storage Areas **Days and Hours of Operation** Insert hours below in the following format: 8am to 8pm If there is a break in the hours you are open, use the second line to insert additional hours. Tuesday Wednesday Thursday Saturday **Days** Sunday Monday Friday to to to to to to to Hours to to to Hours For seasonal operations, check all that apply. Jan Feb Mar Apr May Jun Jul Aug Sept Oct Nov Dec Add additional information (if necessary): Projected daily maximum number of meals to be served per shift, where applicable.

Maximum number of kitchen staff per shift, where applicable.						
Breakfast Lunch Dinner						

Dinner

Lunch



Breakfast

FACILITY FLOOR PLAN/EQUIPMENT LAYOUT

A. Submit floor plans <u>drawn to scale</u> that include the location and identification of all equipment including but not limited to the items listed in Table 1 below. Check all that apply to your facility.

Table 1: Floor Plan/Equipment Layout.

"Mark" off with a check mark or an "X"

Handwashin	g Sinks	Dry Storage Areas	Ventilation Hoods
Food Prepar Sinks	ration	Ice Bins/Ice Machines	Chemical Dispensing Units
Utility Mop S	Sinks	Wait Stations	Chemical Storage Areas
Dump Sinks		Bar Service Areas	Personal Storage Areas
Warewashin	g Sinks	Water Heater Locations	Garbage/Recyclables Storage
Dish Machin	es	Indoor/Outdoor Seating	Dipper Wells
Toilet Facilit	ies	Outdoor Cooking/Bar/Patio	Grease Interceptor/Grease Trap
Floor Sinks/ Drains	Floor	Buffet Lines	Laundry Facility Locations



B. Provide or use the finish schedule in Table 2 below to indicate interior finishes for each area within the establishment or submit a finish schedule sheet.

Table 2: Room Finish Schedule

Room Name	Floors			Wall Finishes				Ceiling	
or Number	Material	Finish	Type of Base	North	East	South	West	Material	Finish
e.g.: Cookline	Tile	Smooth	Tile Coving	Stainless	Stainless	Stainless	Stainless	Vinyl Acoustic Tile	Smooth



EQUIPMENT SPECIFICATIONS

- **A.** <u>Submit equipment specification sheets, including make and model numbers</u>. All equipment shall be of commercial design. If a specification sheet lists more than one piece of equipment, identify the specific equipment to be used.
- **B.** Provide number of hot holding and refrigeration units. Also provide capacities for refrigeration units in Table 3 and Table 4 below.

Table 3: Refrigeration Units

TYPE OF UNIT	# OF UNITS	TOTAL CUBIC FEET
Walk-in Cooler		
Walk-in Freezer		
Reach-in Cooler		
Sandwich Prep Cooler		
Reach-in Freezer		
Blast Chiller		
Retail Display (i.e. Glass cases)		
Other:		
Other:		
Other:		

Table 4: Hot Holding Units

TYPE OF UNIT	# OF UNITS
Steam Table FOH	
Steam Table BOH	
Hot Box FOH	
Hot Box BOH	
Cook & Hold Units	
Other:	



PLUMBING PLANS AND SCHEDULES

A.	. Submit a plumbing plan that indicates location and specifications of the following:				
	1.		Floor sinks and floor drains		
	2.		Restrooms, toilets, urinals, and hand washing sinks		
	3.		Grease trap, grease interceptor, or solids interceptor, if required by the local building, Water, or sanitation authority		
	4.		Hose bibs and hose reels, if applicable		
	5.		Laundry facilities, if applicable		
	6.		Showers, if applicable		
В.			e Table 5 below for all food service-related equipment and plumbing fixtures. Indicate if requipment will be indirectly drained (e.g. floor sink or air gap), directly connected to the		

sewer, and/or what method of backflow prevention will be used, if applicable. If additional equipment is provided, please specify in the table below.

Table 5: Food Service-Related Equipment and Fixtures

ID# on	Fixture or Equipment	Indirect/Direct	Method of Backflow Prevention
Plan	, -	Drainage	Prevention
	Ware washing Facilities		
	Dish Machines		
	Garbage Disposals		
	Hand sinks		
	Food Preparation Sinks		
	Refrigeration Units		
	Ice Bins/Machines		
	Beverage Machines		
	Mop/Utility Sink		
	Chemical Dispensing Units		

Note: Approved backflow protection must be supplied on all fixtures and equipment with submerged inlets. Vacuum breakers must be installed on water inlet lines for dishwashing machines, garbage disposals, and hose bibs. Continuous pressure backflow protection devices must be installed on water lines where a valve or shut off is located between the backflow device and the inlet to the fixture/equipment, such as hose reels. Indirect drainage is required for ware washing, food preparation sinks, ice bins/machines and beverage machines.



В.

C.	1. Is a dec	licated food pr	eparation si	nk provided	? YES	NO		
	2. Is mo	ore than one fo	ood prepara	tion sink pro	ovided? 🗌 YE	S NO		
	3. Attach a	a specification	sheet for the	e food prepa	aration sinks a	nd complete	Table 6.	
	Table 6: Fo	ood Preparati			_			
	- 1	D # on Plans	Length (ind Drain b		,	nches) of Sink nts (LxWxD)		
						X	Х	
						X	х	
D	lo o gorbos	ro dianocal pro	vidod0 🗆 v	/ES □N	0			
	•	ge disposal pro ride location:	viaea? 1	∕ES ∐N	U			
E.		e primarily ser					5.4	
	Circle o	ne or both: N	/lulti-use tab	leware S	Single-Service	lableware	Both	
F.	Provide the	e locations of c	lrink dump	sink(esp. b	ars and Coffe	e establishme	ents) instal	lled in
	areas whe	re soiled drinki	ng glasses a	are emptied	and staged fo	or ware washi	ng:	
G.	Complete	Table 7 and T	able 8 for v	vare washi	ng(dish wash	ing area)		
		Table 7	N# I NA/			3		
		rable 7:		اه/به ما ^ا ما ه میریا	المسلطمين			
ın					lishwashing) In se, and sanitize	formation,		
טו	" DI	Dirty side dr	3-part sink ain board	x- wash, rins Dimension	se, and sanitize s (inches) of	oformation, Clean side		Pre-Rinse
	# on Plans	Dirty side dr length (ir	3-part sink ain board	c- wash, rins Dimension Sink Com	se, and sanitize	oformation, Clean side board le	ength	Sprayer
	# on Plans	•	3-part sink ain board	c- wash, rins Dimension Sink Com	se, and sanitize s (inches) of npartments	oformation, Clean side	ength	
	# on Plans	•	3-part sink ain board	Dimension Sink Com (LxV	se, and sanitize s (inches) of npartments VxD) X	oformation, Clean side board le	ength	Sprayer
	# on Plans	•	3-part sink ain board	Dimension Sink Com (LxV	se, and sanitize s (inches) of npartments VxD)	oformation, Clean side board le	ength	Sprayer
	: Ware was	length (in	3-part sink rain board nches)	c- wash, rins Dimension Sink Com (LxV X	se, and sanitize s (inches) of npartments NxD) X	oformation, Clean side board le (inche	ength es)	Sprayer Yes/No
uten	: Ware was sils used in	length (in shing sinks mu	3-part sink rain board nches) est be large enent.	Dimension: Sink Com (LxV) X x Anough to accompany to ac	se, and sanitize s (inches) of npartments VxD) X x ccommodate the	oformation, Clean side board le (inche	ength es) ce of equip	Sprayer Yes/No ment or
uten	: Ware was sils used in	length (in	3-part sink rain board nches) est be large enent.	Dimension: Sink Com (LxV) X x Anough to accompany to ac	se, and sanitize s (inches) of npartments VxD) X x ccommodate the	oformation, Clean side board le (inche	ength es) ce of equip	Sprayer Yes/No ment or



Table 8: Mechanical (machine) Warewashing Information

Make	Model #	Dirty side drain board length (inches)	Clean side drain board length (inches)	Pre- Rinse Yes/No	High Temp.(HT) or Chemical Sanitizer(CS)	Water Usage (GPH)

H.	Provide the number of plumbing fixtures requiring hot water in Table 11 below. This information will be used to determine the hot water demand within the facility and sizing criteria for the water heater.
	If applicable, attach specification sheets.
	nore than one water heater is to be installed, please indicate which plumbing fixtures each ater or system will service.

Table 9: Storage Tank Water Heater

Make	Model #	kW/BTU Rating

Table 10: Instantaneous/Tankless Systems (Gallons Per Minute, GPM, indicate which required degree rise will be used in the flow rate column)

acgree has will be accam the new rate column,									
Make	Model #	BTU Rating	Flow Rate (GPM) @ 80°F or 100°F rise	Storage Tank Capacity (Gallons), if applicable					

Note:** For instantaneous/tankless systems when a dish machine is used, a properly sized storage tank (minimum 20 gallons), recirculation line, and an aqua stat (water thermostat) must be installed. For facilities with high temperature dishwashing machines, use 100°F rise. For all other facilities, use 80°F rise. If flow rate in GPM is not provided, contact the manufacturer to obtain the information.

**See Appendix A (Storage Tank) or Appendix B (Tankless/"On Demand") at end of application for "Peak Hot Water Demand Guidelines" for facility.

Hot Water Heater must meet or exceed Peak Hot Water Demand. Exceptions will be considered on case-bycase basis depending upon facility operations and menu.



Table 11: Number of Plumbing Fixtures Requiring Hot Water

Plumbing Fixtures Requiring Hot Water	Number of Fixtures throughout facility
3-compartment sinks	
Ware washing machines	
Pre-rinse sprayers	
Utensil soak sinks	
Hand sinks include restrooms	
Mop sinks/Utility sinks	
Garbage can washer	
Showers	
Hose bibs used for cleaning	

SITE PLAN:

Α.	Water Supply -	Select the t	ype of water	supply syster	m that services	the establishment.
----	----------------	--------------	--------------	---------------	-----------------	--------------------

2. If Public- Name of district (i.e. City Great Falls):	

Public Water System ID Number (PWSID): _____

3. If Private - Provide the information requested in section "a." below and complete



Table 12.

a. Submit a copy of the most recent water sample test results and a piping diagram of the disinfection system. Include size of holding tank(s), pressure tank(s), make and model number of treatment system, etc.

Table 12

Private Drinking Water Supply Information									
Well Spring									
Depth (feet)		N/A							
Method of Disinfection									
Filtration (if applicable)									

b.	Location of	well heads	and well	water s	supply I	lines sei	rvicing the	building,	if
	applicable								

SEWAGE DISPOSAL:

1	. Circ	le t	he	type	of	sewage	disposal	syste	em tha	it ser	vices	the	estab	lish	ment	t.

Private (septic) - go to ii Public (sewer) - go to i

- i. Public system Name of district:
- ii. Private, septic system (on-site Waste Water Treatment System) -

Attach location of on-site waste water treatment system (septic system) and septic line
servicing the building.

PERSONAL STORAGE:

A. Where a	re employe	e personal iten	ns (i.e. purses, jackets) stored?	Circle below
Lockers	closet	coat rack	break room/area	other_	
☐ Location	on?				



FOOD:				
Attach ALL menus (beverage, appe	etizer, breakfast, lunch	n, dinner, etc.)		
A. Will vacuum packaging/redu ARM 37.110.2, 3-502.11 Specialize		ng or specialized processes as defined in ds be conducted? YES NO		
specifications sheets for the equipmeach category of food to be process and for additional variance and/or H Smoking food as a method Curing food	ent that will be used a sed in this manner. (C ACCP application pap od of preservation (not	only for flavor)		
	ed oxygen packaging nals for personal us	/modified atmosphere packaging se as food and not for sale in a retail		
•	s and/or equipment w	e monitored. Provide the frequency of vill be monitored. If logs or other types of emperatures, please attach copies.		
C. Will cooked foods be cooled?	YES NO			
D. What methods will be used to rapidly cool cooked foods to 41°F (5°C) or below? Circle all that apply.				
Under refrigeration	Ice water bath	Adding ice as an ingredient		



Rapid cooling equipment Shallow pans

Other:____

Separating food into smaller portions

such as soups, sauces, potato salad, pastas, chili, noodles, roasts, casseroles, sausages, yogurts, etc.
Will foods be reheated and then held hot before being served? TYES DO
If yes, please explain how they will be rapidly reheated to above 165°F (74°C) within 2 hours.
1. List the equipment that will be used for reheating:
How will frozen foods will be thawed(circle).
part of the cooking process Under running water Other:
Will catering be conducted? YES NO
Will food be transported or delivered to another location? YES NO
If yes, please list the equipment that will be used to maintain food at proper temperatures during transport.
Will produce be washed? YES NO N/A



J.	Will the establishme	ent prepare foods th	at will be sold to other retail food establishments?
	□YES □NO		
			alth/FCSS, then click "Food safety", then click tering as a wholesale food purveyor.
K.	How will bare hand (Circle below)	contact with ready-	to-eat foods be eliminated during preparation?
	Utensils	Gloves	Deli Tissue



Appendix A

Peak Hot Water Demand Guidelines Storage Tank Heater

Appropriately sizing your hot water heater is important to ensure all equipment requiring hot water will have an adequate supply at all times, especially peak hours. Use the following tool to determine the estimated maximum hot water demand for the establishment with a **storage tank water heater.**

For storage tank water heaters, the estimated gallons per hour (GPH) for the facility should be less than or equal to the water heater's recovery rate (@ 80 degree F rise**), which can be found on the spec sheet for your hot water heater or by contacting the manufacturer.

**100 degree F rise if facility has high temperature dishmachine

Warewashing	Number of Compartments		imension compart inches)		For 75% C Multiply (# (cubic inches	comp) x s, LxWxD)	GPH
Sinks	Compartments	Length	Width	Depth	x 0.003	3255	
(75% of sink capacity)					0.003	255	
					0.003		
		1				Total	
Prep Sinks (5 GPH per	Number of Compartments			- V =			GPH
compartment)				X 5 X 5			
<u> </u>				<u> </u>		Total	
Handwashing Sinks	Number of Handwashing Sinks					1 0 00	GPH
(5 GPH per sink)				X 5			
Mop/Utility Sinks	Number of Mop/Utility Sinks						GPH
(5 GPH per sink)				X 5			
Hose Reel	Number of Hose Reels						GPH
(5 GPH per reel)				X 5			
Pre-Rinse Sprayer (45 GPH per	Number of Pre- Wash Sprayers						GPH
`sprayer)				X 45	5		
/	Note: Only calculate	pre-rinse	spraye	if conne	ected to hot	water	
Dish Machine (70% final rinse	Make	М	odel		al Rinse Jsage		GPH
usage)						X 0.7	
	Note: Find "Final I	Rinse Us	age" on	Equipme	ent spec she	eet	
Clothes Washer	Make	М	odel	Wat	er Usage		GPH
	Note: Find "Wat				t spec sheet	t	
-	quipment type requipment type requipment type type type type type type type typ	_				Facility emand	

Appendix B

Peak Hot Water Demand Guidelines On-Demand/ "Tankless" Heater

Appropriately sizing your hot water heater is important to ensure all equipment requiring hot water will have an adequate supply at all times, especially peak hours. Use the following tool to determine the estimated maximum hot water demand for the establishment with a **on-demand/tankless water heater.**

Because the efficiency of on-demand/tankless water heaters are dependant upon the temperature of the incoming water supply, these systems may not be ideal for the cold weather winters in Montana. The total gallons per minute (GPM) for the facility should be less than or equal to the water heater's GPM @ 80 degree F temperature rise**, which can be found on the equipment spec sheet (flow rate graph) or by contacting the manufacturer.

**100 degree F rise if facility has high temperature dishmachine

Equipment	Quantity (Total Faucets)	Estimated Usage	GPM
Handwashing Sink		X 0.5 GPM	
Warewashing Sink		X 2 GPM	
Prep Sink		X 1 GPM	
Service Sink		X 1 GPM	
Pre-rinse Sprayer		X 2 GPM	
		Total	

If facility uses low-flow fixtures less than the estimated usage, use the GPM found on the spec sheet for the fixture.

For any other equipment type requiring hot water, see equipment spec sheet or consult manufacturer to find GPM. List Make, Model, and GPM in chart below.

,,,,,					
Equipment Type	Make	Model	GPM		
		Total			
		Total			
		Overall Facility GPM Demand			



Resources

General Information

MT Department of Public Health and Human Services (DPHHS), Rules for Retail Food Establishments (Adminstrative Rules of Montana)

https://dphhs.mt.gov/Portals/85/publichealth/documents/FCS/FinalRetailRule.pdf

Food and Consumer Safety Section (FCSS), Retail Food

https://dphhs.mt.gov/publichealth/FCSS/RetailFood or quick search MT FCSS

FDA Food Code, 2013

https://www.fda.gov/food/fda-food-code/food-code-2013

PDF version for download

https://www.fda.gov/media/87140/download

2017 FDA Food Code (will be adopted in the near future)

https://www.fda.gov/food/fda-food-code/food-code-2017

Food Service Establishment Licensing – Cascade County

https://www.cchdmt.org/environmental-health/food-establishment-safety/food-service-establishment-licensing/

Food Recalls

DPHHS

https://dphhs.mt.gov/publichealth/fcss/recalls

USDA

https://www.fsis.usda.gov/wps/portal/fsis/topics/recalls-and-public-health-alerts/current-recalls-and-alerts

FDA

https://www.fda.gov/Safety/Recalls/default.htm

Food Safety News

Subscribe to Food Safety News and receive an email (5 to 6 articles) every morning about food safety in the US and world

Food Safety News info=foodsafetynews.com@send.aweber.com

Federal Food Safety Information

https://www.foodsafety.gov/news/index.html

Employee Hygiene

Employee Health and Personal Hygiene Handbook

https://www.fda.gov/food/retail-food-industryregulatory-assistance-training/retail-food-protection-employee-health-and-personal-hygiene-handbook

PDF download

https://www.fda.gov/media/77065/



Food Worker Handwashing and Food Preparation

https://www.cdc.gov/nceh/ehs/ehsnet/plain_language/food-worker-handwashing-food-preparation.htm

Sample Handwashing Policy

https://dphhs.mt.gov/Portals/85/publichealth/documents/FCS/SampleHandwashingPolicy.pdf

Sample Written Employee Health Policies

 $\underline{https://dphhs.mt.gov/Portals/85/publichealth/documents/FCS/WrittenEmployeeHealthPolicyExamples.pdf}$

Handwashing posters

https://dphhs.mt.gov/Portals/85/publichealth/documents/FCS/HandWashingPosters.pdf

Plan Review

2016 MT DPHHS Food Service Establishment Plan Review Manual

https://dphhs.mt.gov/Portals/85/publichealth/documents/FCS/plan-review-for-food-establishments-guide-2016-final.pdf?ver=2017-02-07-141842-683

Miscellaneous

Bacteria and viruses as sources of food poisoning

https://www.foodsafety.gov/food-poisoning/bacteria-and-viruses

Animals in Food Service Establishments

 $\underline{https://dphhs.mt.gov/Portals/85/publichealth/documents/FCS/Animals\%20in\%20Food\%20Service\%20brochure.pdf}$

Food Allergy information

https://www.fda.gov/food/buy-store-serve-safe-food/what-you-need-know-about-food-allergies

Temperature dangers

https://www.webstaurantstore.com/article/29/following-food-safety-temperatures.html

https://www.foodsafety.gov/food-safety-charts/safe-minimum-cooking-temperature

https://www.fsis.usda.gov/wps/portal/fsis/topics/food-safety-education/get-answers/food-safety-fact-

sheets/safe-food-handling/danger-zone-40-f-140-f

https://www.fsis.usda.gov/wps/portal/fsis/topics/food-safety-education/get-answers/food-safety-fact-sheets/safe-food-handling/how-temperatures-affect-food

USDA Food Safety Fact Sheets

https://www.fsis.usda.gov/wps/portal/fsis/topics/food-safety-education/get-answers/food-safety-fact-sheets

What to do (or not to do) during an inspection

Inspection guidelines (General information)

https://www.webstaurantstore.com/article/16/health-inspection-checklist.html

https://www.markelinsurance.com/-/media/specialty/risk-management/small-business/fc-policyholder-training-series/things-health-inspectors-look-

for.pdf?la=en&hash=210E1830F3D1B1FCA48D618694A0028030006938

https://freshideas.maines.net/health-inspectors/

